Work Order March-29-12 1:29		350		*823	350*			· · <u></u> -	Page 1				
Revision ID:	0412-664-20 Crosstube Aft	3		*N900040100)* s	etup Sta	i V.	S1* S2*		
Start Date: 2 Required Date: 2 Reference:	9/03/2012 0/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:				. 1 4	17		
	Process Plan	n: MC5	Date: 12/03/20 Date:	Tooling: SPC (Y/N):		ite:		R	un Sta	1/1	R1* R2*		
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp		
Draw Nbr		sion Nbr											
D412-664-243	E/DI	EO											
*100 *100* DC Document Control		DOCUMENT CONTROL Memo Photocopy blood	uefile and create labels as	0.00	CHG 008 & B			Tw	o many	.A	- ZN		
Packaging Packaging		Memo		0.00									
120		BENDING MACHINE - 0	PROSETI IDES	0.00	• • • • • • • • • • • • • • • • • • •			MO	6		(= /		
120 CNC Bend 2 CNC Alpha 160 Bende	er	Memo	per Dwg D412-664-243 u	0.00 sing CNC bender program	m 412-aft and				Im	, TW	12.6		

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W/O:			WOI	RK ORDER CHANGI	ES		,	****
DATE	STEP		PROCEDURE CHAN			Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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· percent								
Part No	,x f +	PAR #:	Fault Catego	ory:	NCR: Yes N	o DQA:	Date:	<u> </u>
	R	esolution:	Disposition:		QA: N/C Clos	<i>)</i> sed:	Date:	
NCR:		,	WORK ORDE	R NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC	Initial	Corrective Action Section Action Description Chief Eng	Sign &	Verification Section C	Approval Chief Eng	Approval QC inspector
12/4/25	120	CROSHING FROM BENDING IS OVER TOLERANGE	12/6/25	ficientale pur attac	hed	1206.25	12/4/25	120025

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Work Orde March-29-12 1:		350			*823	350*			Pag				
Item ID: Revision ID:	D412-664-20)3			Accept	*N900	040	100)*	Setup Star	t *N	S1*	
Item Name:	Crosstube Aft									Sto	*NI	S2*	
Required Date:	29/03/2012 20/04/2012	Start Qty Req'd Qty	•	*1* *1*		Cust Item :	ID:				IV	. 17	
Reference: Approvals:	Drogges Dla	n•		Nata.	Taaliaa		 -		1	Run Star	t *NI	D1*	
Approvais.	Process Pla QC:			Oate: Oate:			ate:			Stop	, *N	R2*	
Sequence ID/ Work Center IE)	Operation Description			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
130		QC15- Crosst	tube Dimension	al Check	0.00					Cij		- wanp	
130 QC Quality Control		V	M emo		0.00				<u> </u>	B	2 06.	አ 夸	
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140		1			0.00								
<u>*</u> 140*		Crosstubes											
Crosstubes			Aemo		0.00	\							
Crosstubes					Dwg D412-664-243 using drill sing #9 holes as per QSI 10 to i								
		Ε	T8550 & DT85	nish size in tube 51 Check dimen ent with saddle h	as per Dwg D412-664-243usi sions between holes, both sides oles.	ng drill Jig s on both cuffs,		Mo		12-6	-25		

3-SCRIBE PART # & BATCH #

4-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-243

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W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	CEDURE CH	IANGE		Ву	,	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	:	PAR #:	Fault Category: N				es N	o DQ	Date:				
	Resolution:			ion:		_ QA: N/0	Clos	ed:		Date: _			
NCR:			VORK OR	DER NON-C	ONFORMA	NCE (N	CR)				_		
DATE	STEP	Description of NC				on B		Verific	ation	Approval	Approval		
DAIL	SILF	Section A	Initial Chief Eng		Description nief Eng		gn & ate	Secti	on C	Chief Eng	QC Inspector		
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Work Order ID 82350 <i>March-29-12 1:29:48 PM</i>				*82350*								3	
Item ID: Revision ID:	D412-664-2	03		Accept	*N90	00040	100)*	Setup	Start	*N.	S1*	
Item Name:	Crosstube Aft	t								Stop	*N:	S2*	
Start Date:	29/03/2012	Start Qty: 1.00	*1*		Cust Ite	em ID:						• •	
Required Date	e: 20/04/2012	Req'd Qty: 1.00	*1*		Custom	ier:							
Reference:			•										
Approvals:	Process Pla	an:	Date:	Tooling:		Date:			Run	Start	*N	R1*	
	QC:		Date:	SPC (Y/N):		Date:				Stop	*N	R2*	
Sequence ID/ Work Center	ID	Operation Description		Set Up/ Run Hours	Tool I	D Tool #	Plan Code	Accep Qty	t Re Qt		Reject Number	Insp. Stamp	
150		Crosstubes Chemical Cor	nversion	0.00									
150 HandFXtube		Memo		0.00									
Hand Finishing Cr	osstubes												
				1									
160		QC3- Inspect Part Finish		0.00	>								
160				(1)									
QC		Memo		0.00									
Quality Control													
170		QC5- Inspect part comple	eteness to sten on W/O	0.00								,	
170		200 mopeot part compre	seemeds to step on w/O	ંંં ું જો તા	126							7/20-	7
QC		Memo		0.00									
Quality Control													

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W/O:				WORK ORDER C	1ANGES ´							
DATE	STEP		PROCE	DURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		move stops	#150 x #160	to Aten Soft and 2	/ 1.	A			·	7/04/26		

Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B	Verification	Approval	Annroyal						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector					
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Work Order ID 82350 Page 4 March-29-12 1:29:48 PM Item ID: D412-664-203 Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Aft 29/03/2012 **Start Date:** Start Qty: 1.00 **Cust Item ID: Required Date: 20/04/2012** Req'd Qty: 1.00 **Customer:** Reference: Process Plan: _____ Date: Approvals: Tooling: Date: Date: _____ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description Qty Run Hours Code **Qty** Number Stamp 180 Outsource process - NDT per QSI038 4.1 0.00 CX 12/06/27 *120* Outsource2 0.00 Memo Outsource process - NDT Liquid Penetrant Inspection as per QSI 038Or Issue P/O: 173/2 LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order 190 0.00 Packaging *100* Packaging 0.00 Memo Packaging Inspect for transit damage Ensure copy of NDT results attached to work order. 200 QC5- Inspect part completeness to step on W/O 0.00 *200* 0.00 Memo Quality Control Inspect for damage & ensure results are as per Dwg D412-664-203 of chemical cost ASPOR 027405

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W/O:			WORK ORDER CHANGES										
DATE	STEP	PROC	EDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Part No		PAR #:											
	R	esolution:	_ Dispositi	on:	_ QA: N/C C	osed:		Date: _					
NCR:		W(ORK ORI	DER NON-CONFORMA	NCE (NCF	R)							
DATE	STEP	Description of NC	to take t	Corrective Action Section		Verific	cation	Approval	Approval				
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		on C	Chief Eng	QC Inspector				
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*Work Order ID 82350 March-29-12 1:29:48 PM			*82350*								Page 5			
Item ID: Revision ID:	D412-664-20	03		Accept	*N90	0040	110	N *	Setup Start		*N	S1*		
Item Name:	Crosstube Aft								Stop	*N	S2*			
	29/03/2012	Start Qty: 1.00	*1*		Cust Ite	m ID:								
Required Date: Reference:	20/04/2012	Req'd Qty: 1.00	*1*		Customo	Customer:								
Approvals: Process Plan: QC:		n:	Date:	Tooling:		Date:			Run	Start	*N	R1*		
			Date: SPC (Y/N):			Date:		Stop			*NR2*			
Sequence ID/ Work Center II	Operation Description				Tool II	O Tool#	Plan Code	Accept Qty	t Reje Qty		Reject Number	Insp. Stamp		
*210 *210* SprayPaint		SprayPaint		0.00				4	1	2 - 5	7 - 3		PTO	
Spray Painting		Memo ***Mask ur	nderside of crosstube as sl										•	
. , .			ide and outside crosstube											
			ide crosstube with White	Imron as per DEO D412										
		PRIME: 12 Start Time: Fininsh Tim PAINT: 12 Start Time: Finish Time	7:30 AB 12-7-1 e: 8:30 10985 4:15 AB 12.7	Flat Star 7 Final	121687 122142 f 8:00 1 8:45									
²²⁰ *220*		QC14- Inspect Spray Pai	int	0.00							^	. 0	-	
QC		Memo		0.00				-W/	12		01	23 (り	
Quality Control		Then, Wrap	in plastic bag to protect fr	om scratches										

Then, Wrap in plastic bag to protect from scratches

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W/O:	WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	В	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
12/07/04	210	AT STEP 210 INFORMATION REFERING TO CLEAR COAT PROTECTION ACCORDING TO DEO NOD412-664-243-E-1 IS MISSING AND THE ADDITION OF POLYURE 20% FLAT IN CLEAR CORT.	A.Sat	12/07/04/			JAN
						-	

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
D.475	0.750	Description of NC		Corrective Action Section B		Verification	Approval	Approval QC Inspector
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	
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Work Orde		350		*82:	350*					Page 6
Item ID: Revision ID: Item Name: Start Date: Required Date:	D412-664-20 Crosstube Aft 29/03/2012 20/04/2012	Start Qty: 1.00 Req'd Qty: 1.00		Accept *1* *1*	*N900040 Cust Item ID: Customer:) 1∩()*	Setup Sta	1.7	S1* S2*
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):	Date:			Run Sta		R1* R2*
Sequence ID/ Work Center II 230 *730* Crosstubes Crosstubes)	up. A/R Proseal 2- Lightly sowith 41058 v 3-Install supplications	fing shield as 1 890 Batch EXP:_ uff the bonder vash 'n' wipe port with Scot 3 using install	Set Up/ Run Hours 0.00 0.00 0.00 12-664-203 Seper DEO D412-664-243. Top holes 121287 11/12 d area using a 320 grit sand paper and tech-Weld DP460 and install clamps a laition jig DT9024. Torque clamps a 460 Batch: 120398 EXP: 17/14, 3013	should be facing nd clean the area as per DEO Dwg	# Plan Code	Accept Qty	Qty	Reject Number	Insp. Stamp
240 * 24 0* QC		QC5- Inspect part comple	eteness to step) oc		fil			

Quality Control

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W/O:			WO	RK ORDER CHANG	GES				,
DATE	STEP	PR	OCEDURE CHAN	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approvál QC Inspector
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Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A:	Date: _	
	R	esolution:	Disposition	1:	QA: N/C	Closed:		Date: _	-
NCR:	•		WORK ORDE	R NON-CONFORM	ANCE (NC	R)			
DATE	STEP	Description of NC			ction B	Verifi	cation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Sect	ion C	Chief Eng	QC Inspector
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Work Orde March-29-12 1:		350		*823	350*							Page 7
	D412-664-20 Crosstube Aft 29/03/2012 20/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*	Accept	*N900 Cust Item I Customer:		100) *	Setup	Start Stop	I VI	S1* S2*
Reference: Approvals:		n:	Date:		Da	ate:			Run	Start Stop	" [X]	R1* R2*
Sequence ID/ Work Center II 250 *250* Packaging Packaging		Operation Description Pick Kit Memo		Set Up/ Run Hours 0.00	Tool ID		Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp 12/07/06 J
260 *260* QC Quality Control		QC4- 100% Inspect kits Memo	for completeness	0.00 Sozla	toc							
270 * 97 0* Packaging Packaging		*****Ensu for applicati	on time & date ****** of packaging:	0.00 0.00 PPP D412-664-203 f curing time is less than 12	2 hrs, see step 27			(<u>X</u>				Sp 1-7-6

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DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Description of NC	cription of NC Corrective Action			Verific	cation	Approval	Approval
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Parent Item Name:	Crosstube Aft							S	tart Date: 29/0	3/2012	Required	Date: 20	0/04/2012
								5	Start Qty: 1.00		Require	d Qty: 1.	00
Comments:	IPP Rev:E04.02.16 IPP Rev:F 06-03- IPP Rev:G 06.12. IPP Rev:H 07-04 IPP Rev:I 08-06-1 11.04.21 DEO D4	29 Remove Co 08 per ECN 88 -30 As per Rev I 2 add comment 412-664-243-E-1 I	oments of B6 D in seq. EC ver	on Pick List 3 E Ji 21 DD verit rified DD	C LM	' rev J							
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D412-664-203TRN		Manufactured	No	B&53	Q &	110	Each	2.0000	1	1	Ti		17 44
D412-66 Crosstube Turning Detail		8N		9000	00				**		70	J	12-06-21
				Location		Loc C	<u>Oty</u>	Loc Code					
				LG			2		_		_		
					80850		I				_		
D2006 1					80851		1		_		_		
D2896-1		Manufactured	No			230	Each	20.0000	1	1	10		
*D2896-1	*					, ,			**		AS	12-	7-5
Support				Location	71502/	44465, Loc (<u>Oty</u>	Loc Code		0			
				LG053			20		_				
					74465		20						•

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D412-664-203

Page 1

Picklist Print

Parent Item:

March-29-12 1:29:51 PM

Parent Item Name: Crosstube Aft

D412-664-203

Work Order ID: 82350

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DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cat	egory:	NCR: Yes	No DQA:	Date: _	
	R	esolution:	Dispositi	on:	QA: N/C Cld	sed:	Date: _	·
NCR:			WORK ORI	DER NON-CONFORM	MANCE (NCR)		
DATE	STEP	Description of NC			ection B	Verification		Approval
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Picklist Print 'March-29-12 1:29:51 PM									Page 2
Work Order ID: 82350		*82	2350*						1
Parent Item: D412-664-203 Parent Item Name: Crosstube Aft			412-664-20	13 *			rt Date: 29		Required Date: 20/04/2012
						Sta	art Qty: 1.	00	Required Qty: 1.00
D3189-1	Manufactured	No		230	Each	32.0000	2	2	
D3189-1							**		Al 12-7-5
Chafing Shield			83972	Loc	e Qty	Loc Code		(B)	
			FG		4				_
			36065		4				
			LG052		20				_
			81060		20				_
			LG053		8				<u> </u>
			76473 79796		l 7				<u> </u>
D3595-063-570	Manufactured	No	19190	230	Each	95.0000	2	2	_
D3595-063-570	Manaracturea						**		AJ 12-7-5
			Location	Loc	e Qty	Loc Code			
			FG		8				_
			37971		1				_
			42243		7				
			MAT052		87				<u> </u>
			71534 76546		10 77				_ _

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March-29-12 1:29:51 PM									Page 3
Work Order ID: 82350		*8	2350*						\overline{U}
Parent Item: D412-664-203 Parent Item Name: Crosstube Aft			412-664-2	ივ*		tart Date: 29/ Start Qty: 1.0		Required Date: 20/ Required Qty: 1.0	
MS21920-28 *MS21920-28* Clamp(per MIL-DTL-8783C)	Purchased	No		230 Each	99.0000	4 **	4	A) 12-7	7-5
			Location FG 105884 LG050 116839 118713 120054 120884	5 5 94 2 4 2 36	<u>Loc Code</u>	- - - - -		- - - -	
MS21920-30 *MS21920-30* clamp(per MIL-DTL-8783C)	Purchased	No	21067	50 230 Each	68.0000	2 **	2 2	A 12-7-	-5
AN6-40A ************************************	Purchased	No	Location LG 119529 LG050 117998 LG051 111258	Loc Oty 50 50 4 4 14 14 250 Each	Loc Code 88.0000	**	4 4 12158	- - - - - 84 JB 1	2/07/00
Bolt			Location ST342 120187 120833	<u>Loc Oty</u> 88 84 4	Loc Code	- - -		- - -	2/07/04

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DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
	O.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector
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Picklist Print . March-29-12 1:29:51 PM	. 		···						Page 4
Work Order ID: 82350 Parent Item: D412-664-203 Parent Item Name: Crosstube Aft			2350* 412-664-2	203*			art Date: 29/03/2012 tart Qty: 1.00	Required Dat Required Qt	te: 20/04/2012
*AN6-41A *AN6-41A Bolt	Purchased	No		250	Each	67.0000	2	- JB	<u></u>
			Location ST342 119749 120187 120423	<u>L</u> a	67 16 1 50	Loc Code	1204		
*AN960JD616 *AN960.ID616*	<u>U</u> Purchased	No	.20.25	250	Each	0.0000	** 1214	7	
MS21042L6 *MS2 1042L 6*	Purchased	No		250	Each	872.0000	6 **	JB_	12/09/06
			Location ST300 117677 118384 118927 119075	<u>L</u> .	872 25 3 48 596	Loc Code	11907	 	4

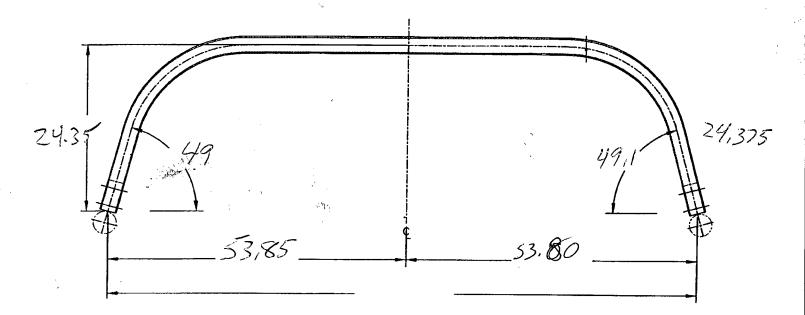
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Part No	:	PAR #:	Fault Cat	tegory:	NCR:	Yes N	o DQ	\ :	_ Date: _	
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DATE	STEP	Description of NC			tion B		Verific	ation	Approval	Approvai
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DART AEROSPACE LTD	Work Order:	82350
Description: Crosstube High Aft (412)	Part Number:	D412-664-203
Inspection Dwg: D412-664-243 Rev: E		Page 1 of 1

Required Dimension	Min	Max
Height	24.24	24.50
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.70



Crustin SA-61/10 SB-6,7%
Passer SA-8 SR-10 Middle-16

QC15 Inspection	120025
Date	

Rev	Date	Change	Revised by	Approved
A	07.02.06	New Issue	KJ/JM	
В	07.05.08	Dimensions updated per Dwg rev. D	KJ/JLM	
С	10.02.02	Dwg Rev updated	KJ \$\$	1
	v		·	

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No:		PAR #:	Fault Cate	egory:	NCR: Yes	No DQA:		_ Date: _	
	Resolution: Disposition: Q				_ QA: N/C CI	osed:		Date: _	
NCR:		N	WORK ORD	ER NON-CONFORMA	NCE (NCF	1)			
DATE	STEP	Description of NC		Corrective Action Section Action Description	Section B Sign & Section			Approval	Approval
		Section A	Chief Eng	Chief Eng	Date	Section	C	Chief Eng	QC Inspector
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ltem	Qty -243	Part Number	Description
1	х	D412-664-243	CROSSTUBE ASSEMBLY (412 HIGH AFT)
2	1	D6009-129	CROSSTUBE
3	2	D3595-063-570	RUBBER CUSHION
4	1	D2896-1	SUPPORT
5	2	D3189-1	CHAFING SHIELD
6	2	D2856-600-1009	ABRASION STRIP
_ 7	4	MS21920-28	CLAMP .
8	2.	MS21920-30	CLAMP (OR MS21920-32)
9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTROWBELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

1) MATERIAL: MANUFACTURED FROM D6009-129

FINISHED LENGTH = 124.100±0.020 (BEFORE BENDING/TRIMMING)

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

UNITS: INCHES UNLESS OTHERWISE NOTED.

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX.

 IDENTIFICATION: SCRIBE DART PART NUMBER "D412-664-243" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.

7) WEIGHT: 47.0 lbs (PER iIN-D212-664)

8) PART IS SYMMETRIC ABOUT CENTERLINE.

9) RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O D

11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MACNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

13) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECURE THE D2896-1. SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.

14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.

15) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005 MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO __82350 MLJ
[2/03/29]

@ DEO ATTACHED

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DELEASED 2009 -10- 29

REFORMAT/REVISE GENERAL NOTES; 09.09.30 REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; RELOCATED FLAG #6 PER PAR 08-046 (ZN A6-3); ADD TOLERANCE (ZN B6-3, C4-3, C8-3 & C5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4. REMOVE D2732-058, CHANGE TO D3595-063-570 07.03.09 REMOVE D2856-600-1087, ADD D2732-058 & MB 06.10.27 MAGNOBOND 6398, MS21920-32 WAS MS21920-30 ADD HOLES FOR COMPATABILITY WITH BHT/AA 05.02.04 SKIDTUBES NEW ISSUE 01.10.17 PH REV. DESCRIPTION BY DATE

DESIGN	PH	DART AEROSPACE LTD					
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA					
CHECKED	P	DRAWING NO.	REV. E				
MFG. APPR.	77	D412-664-243	SHEET 1 OF 4				
APPROVED	140	TITLE	SCALE				
DE APPR.	-#	CROSSTUBE ASSEMBLY	(412 HI AFT) NTS				
DATE 09.09.30 COPYRIGHT © 2001 BY DART 1950 COMPANDED TO 1950 COPYRIGHT OF 1950 COPY			ED ON THE EXPRESS CONDITION THAT IT IS ICATED TO ANY OTHER PERSON WITHOUT				

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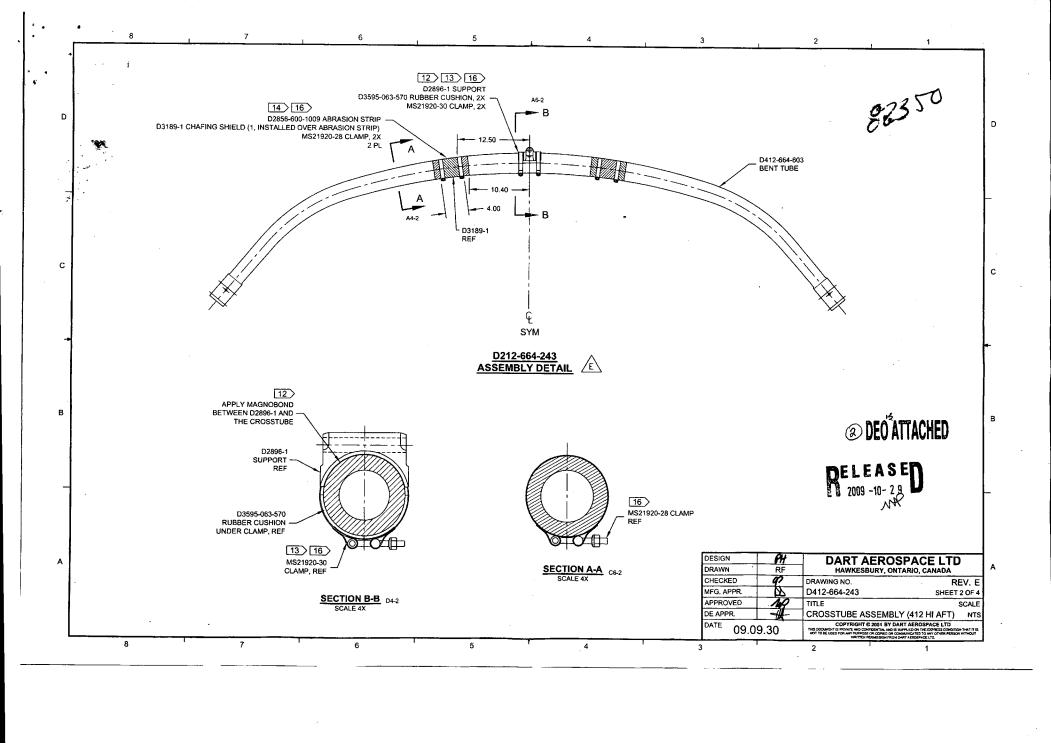
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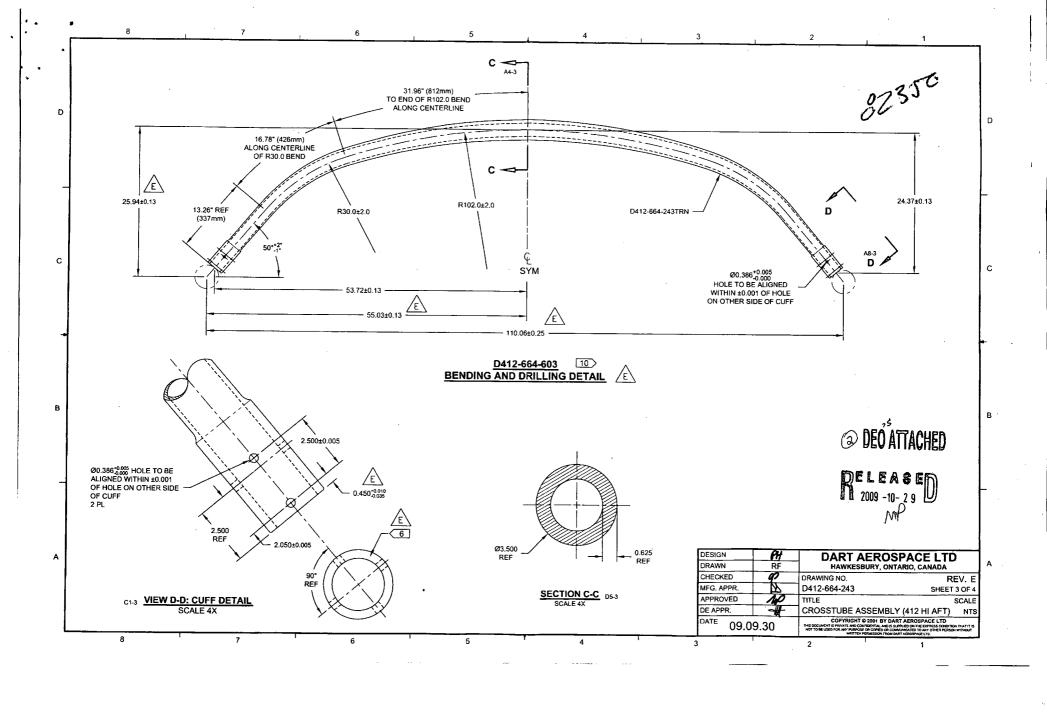
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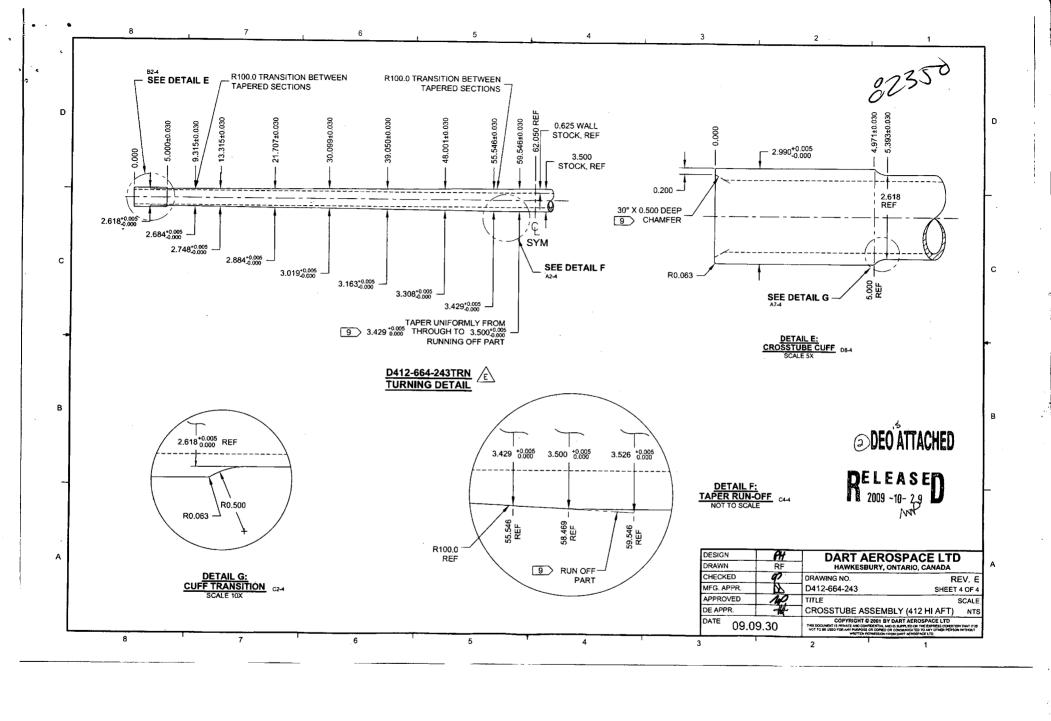
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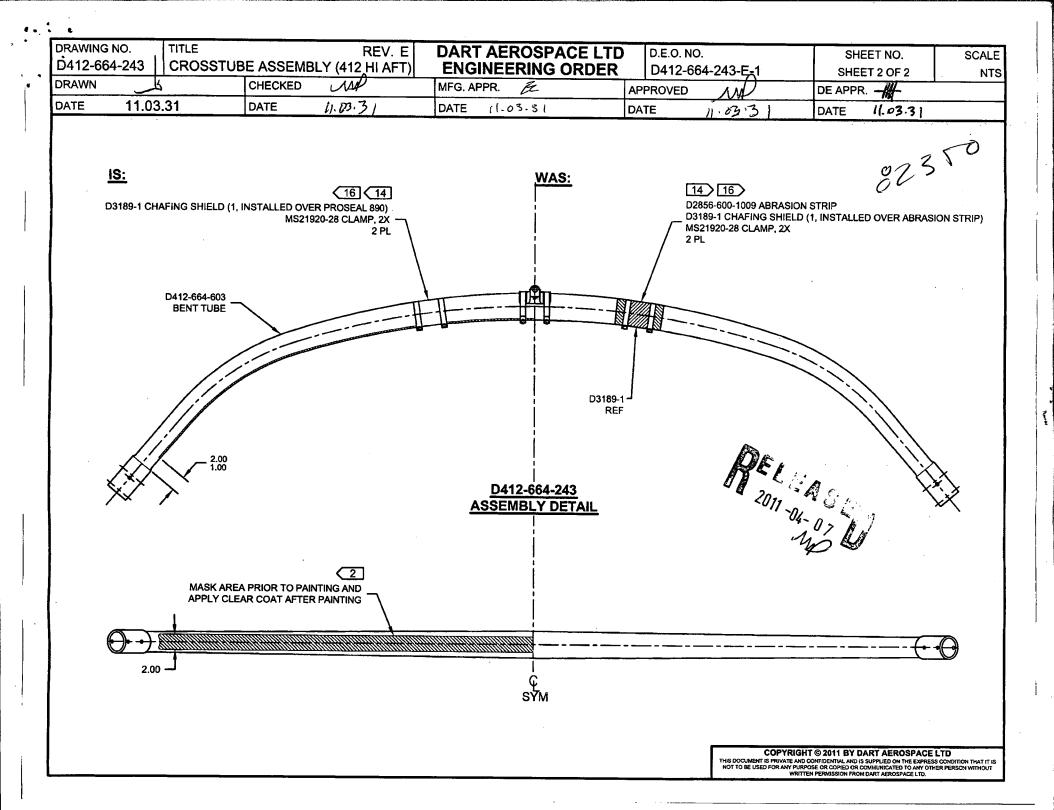


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DRAWING N		REV. E	DART AEROSPACE L	TD D.E.O. NO.	SHEET NO.	SCALE
D412-664	1-243 CROS	STUBE ASS'Y (412 HI AFT)	ENGINEERING ORDI	ER D412-664-243-E-2	SHEET 1 OF 1	NTS
DRAWN	P	CHECKED ASS	MFG. APPR.	APPROVED MY	DE APPR.	
DATE	11.09.07	DATE 11.09.19	DATE ((.09.19	DATE 11.09.19	DATE 11.09.19	

PURPOSE:

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

22350

CHANGE:

IS:

Item	Qty -243	Part Number	Description
9	A/R	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

WAS:

9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 16, SHEET 1 IS AMENDED AS FOLLOWS:

IS

- 12) INSTALL D2896-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



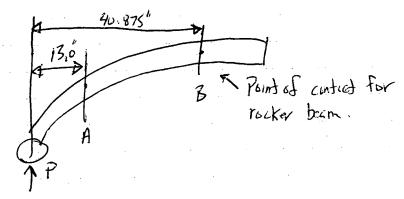
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	, ,	ion C	Chief Eng	QC Inspector
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	1.								

CRUSHING OF 11412-664-243

Acceptability of 8% CRUSHING AT END OF BEND



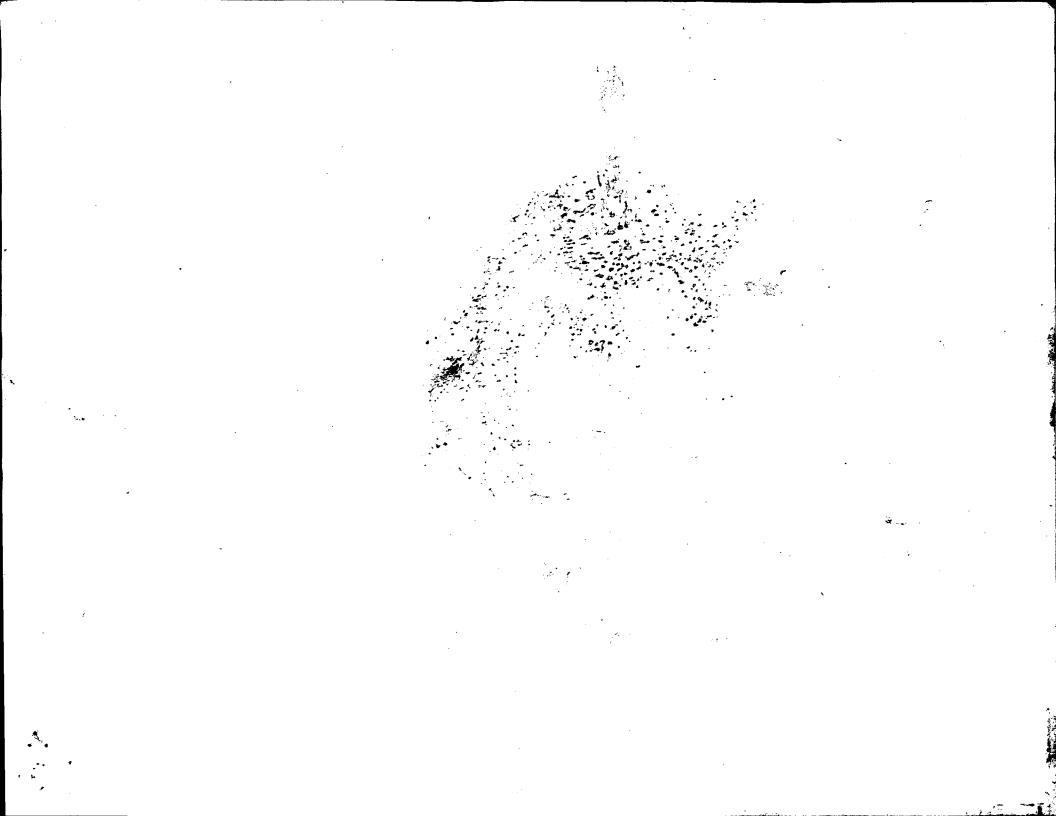
Point B: UD1 = 3.307", I= 4.613 in 4

A° F=Mc/I = Px 13 x 2.961/2 x 1.676 = 11.484-P B° " Px 40.875 x 3.307/2 x 4.613 = 14.651.P

M.S. z. 14.651/11.484-1= 0.27

of 8% croshing, 8% crushing in area at end of tube bond is acceptable

P11.12.06



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VIETHOD FAMILY BRAND		Pux		BLACK LIGHT S	S/N 16459 ZI OUTPUT	> 1000 μ W/cm ²	MBIENT < 2 fc
PENETRANT	ZL67	MINIMUM DWELL		VIIN. LIGHTING EQUI	IP. DFLASHLIGHT DTROUB	LELIGHT OUTPUT>10	UTC@SURFACE
PENETRANT REMOVE DEVELOPER	5KD 52.	MINIMUM DRY TIM MINIMUM DWELL		VIIN. OTHER A VIIN. LIGHT METER S	S/N 109866	CAL DUE DATE	77
DEVELOPER TYPE	Non Aqu						4012
TEST SURFACE	/	IND	As WELDED	✓ Machined	☐ SHOT BLASTED	☑ CLEAN E	BARE M ETAL
SURFACE CONDITION SURFACE TEMPERAT			AS WELDED - 4°C/ 20°F TO 10°C		Ø 10°C/50°F TO 52°		
RESULTS-	METRIC	☐ IMPERIAL)					
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Scope of Services The agreement of Acuren G.	roup Inc. to perform service	ces extends only to those ser	rvices provided for in writing	 Under no circumstances sh up Inc. based on information 	hall such services extend beyond the perf and assumptions supplied by the owner	formance of the requested services. Toperator and are not intended nor c	It is expressly understood can they be construed as
that all descriptions, comme	ents and expressions of op	oinion reflect the opinions or	observations of Acuren Gro	and the owner/operator retain	and assumptions supplied by the owner, ins complete responsibility for the engine to herein exceed the amount paid for suc	eering, manufacture, repair and use	decisions as a result of the
Standard of Care In performing the services p	provided, Acuren Group In				others performing such services in the s		varranty, expressed or
implied, is made or intended	d by Acuren Group Inc.	•					
SIGNATURES	·	<i>UI. A</i>	[] -	1.11	Jones !	DTR# £636	64
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	CGSB R	REG. NO	CG	SSB REG. NO			

5.0 PARTS LIST

5.1 HIGH GEAR CROSSTUBES

Item	-101	-201	-203	Part Number	Description
	x			D212-664-101	CROSSTUBE INSTALLATION, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
		x		D212-664-201	CROSSTUBE INSTALLATION, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
			х	D412-664-203	CROSSTUBE INSTALLATION, 412 HIGH AFT
1	1			D212-664-141	CROSSTUBE ASSEMBLY, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
2		1		D212-664-241	CROSSTUBE ASSEMBLY, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
3			1	D412-664-243	CROSSTUBE ASSEMBLY, 412 HIGH AFT
				+ 00000 4	SUPPORT
_10	2		ļ	* D2893-1	RUBBER CUSHION
_11	4			* D3595-063-450	CLAMP (OR MS21042-26)
12	4			* MS21920-25	BOLT
13	4		ļ	AN6-35A AN6-36A	BOLT
14	6		ļ	MS21042L6	NUT (OR MS21042-6)
15			 -	AN960JD616	WASHER
16	18		 	A143003D010	TTTOTTE
20		2		* D2940-1	SUPPORT
21		4	 	* D3595-063-530	RUBBER CUSHION
22	 	4	 	* MS21920-28	CLAMP (OR MS21042-30)
23		4		AN6-40A	BOLT
24	†	2	1	AN6-41A	BOLT
25		6		MS21042L6	NUT (OR MS21042-6)
26		18		AN960JD616	WASHER
			ļ <u>.</u>	* D2896-1	SUPPORT-
30	ļ		1 2	* D3595-063-570	RUBBER CUSHION
32			4	* MS21920-28	CLAMP
33			2	<u></u> MS21920-20	CLAMP (OR MS21042-32)
34	 		14_	-N6-40A	BOLT
35 36			1 2	AN6-41A	BOLT
37	 		6	MS21042L6	NUT (OR MS21042-6)
38	 		718	AN960JD616	7WASHER
39			2	* D3189-1	CHAFING SHIELD
50	1	1		D3428-1	PLACARD

^{*}REFERENCE ONLY. PARTS ARE INCLUDED IN D212-664-141/-241 OR D412-664-243 ASSEMBLIES ABOVE NOTE: KITS INCLUDE EXTRA HARDWARE FOR COMPATIBILITY WITH BOTH DART AND BELL/AAI SKIDTUBES.

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Revision: G Date: 11.08.30

82350

Work Order ID 82350 March-29-12 1:29:48 PM Setup Start *NC1* *N900040100* Accept D412-664-203 Item ID: Regision ID: Crosstube Aft Item Name: Cust Item ID: Start Qty: 1.00 29/03/2012 Start Date: Customer: Req'd Qty: 1.00 **Required Date:** 20/04/2012 Run Reference: Date: _____ Process Plan: MLJ Date: 12/03/29 Tooling: Approvals: Date: SPC (Y/N): QC: Accept Reject Reject Tool # Plan Tool ID Stamp Number Set Up/ Oty Qty Code Operation Sequence ID/ **Run Hours** Description Work Center ID **Revision Nbr** Draw Nbr E/DEO D412-664-243 0.00 CX/2107/06 100 DOCUMENT CONTROL *100* Photocopy bluefile and create labels as per PPP D412-664-203 CHG 008 4 B Document Control Tu 126-20 0.00 110 Packaging *110* 0.00 Memo Packaging Packaging

120

120 CNC Bend 2

CNC Alpha 160 Bender

BENDING MACHINE - CROSSTUBES

0.00

0.00

Bend tube as per Dwg D412-664-243 using CNC bender program 412-aft and Folio FT010